



NTP
National Toxicology Program

Research on the Inhalation Toxicology of Environmental Chemicals

Concept Review





Background

- R&D Cost-reimbursement contract to provide inhalation exposure capability to NTP/NIEHS
- Continuously funded since 1979
- Originally a Govt facility operated by an on-site contractor
- Recompeted every 5 years
- Current contract ends January 2007



Purpose of Contract

- **Provide inhalation support for the NTP**
 - Investigate mechanisms of toxicity
 - Evaluate dosimetry and toxicokinetics of inhaled chemicals
 - Develop inhalation exposure technology
 - Develop models of respiratory disease
 - Provide rapid response capability



Purpose of Contract

- **Provide inhalation exposure capability to DIR investigators**
 - Easy access
 - Capability based upon needs
 - Flexibility
 - Space and labor dedicated to NIEHS



Need for Contract

- **Inhalation exposures not technically feasible for individual investigators**
 - Requires highly specialized facility and equipment
 - Technical expertise
 - Resource intensive



Inhalation Facility Utilization

<u>Year</u>	<u>Animals</u>	<u>Studies</u>	<u>Cost (\$M)</u>
1	1339	23	2.25
2	3030	81	2.17
3	3291	78	2.39
4	5549	158	2.74
5*	2430	112	---

Year 1 renovation for ozone and hyperoxia studies

Year 4 contract mod to add 5 rooms, 2 technicians

Year 5 1/1/06 thru 5/1/06



Statement of Work

- Task 1 – Provide space for facility
- Task 2 – Operate inhalation facility
- Task 3 – Maintain/operate animal facility
- Task 4 – Conduct studies



Proposed Changes to SOW

- **Increase animal holding space**
 - Current: 9 rooms Proposed: 15 rooms
- **Increase exposure capacity**
 - Current: 4 rooms Proposed: 8 rooms
- **Increase personnel**
 - Current: 17 Proposed: 22
- **Govt services and supplies no longer provided**
 - Current: animals, feed, bedding, supplies, etc.



Intended Results

- Streamline animal ordering/shipment
- Increase animal holding capacity
- Increase exposure capacity
- Increase space for necropsies
- Reduce scheduling conflicts
- Increase quality and quantity of work